

-continued

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What is claimed is:

1. A method of simultaneously determining the alleles present in a set of short tandem repeat loci from one or more DNA samples, comprising:

- (a) obtaining at least one DNA sample to be analyzed,
- (b) selecting a set of loci of the DNA sample, comprising D3S1358, D5S818, D7S820, D8S1179, D13S317, D16S539, D18S51, D21S11, HUMCSF1PO, HUMFIBRA, HUMTH01, HUMTPOX, and HUMvWFA31,
- (c) co-amplifying the loci in the set in a multiplex amplification reaction, wherein the product of the reac-

tion is a mixture of amplified alleles from each of the co-amplified loci in the set; and

(d) evaluating the amplified alleles in the mixture to determine the alleles present at each of the loci analyzed in the set within the DNA sample.

2. The method of claim 1, wherein at least four of the short tandem repeat loci are selected from the group consisting of: D5S818, D7S820, D13S317, D16S539, D18S51, D21S11, D3S1358, D8S1179, HUMFIBRA, HUMCSF1PO, HUMTPOX, HUMTH01, and HUMvWFA31.